

PCT REQUEST

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Original (for SUBMISSION) - printed on 12.06.2003 05:05:28 PM

Flut_101

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.04.2003)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Indian Patent Office (RO/IN)
0-7	Applicant's or agent's file reference	Flut_101
I	Title of invention	CONVENIENT SYNTHESIS OF S-FLUOROMETHYL 6ALPHA, 9ALPHA-DIFLUORO-11BETA-HYDROXY-16 ALPHA-METHYL-17ALPHA-PROPIONYLOXY-3-OXOANDROST A-1,4-DIENE-17BETA-CARBOTHIOATE
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	SUN PHARMACEUTICAL INDUSTRIES LIMITED
II-5	Address:	ACME PLAZA ANDHERI KURLA ROAD, ANDHERI (EAST) 400 059 MUMBAI, INDIA India
II-6	State of nationality	IN
II-7	State of residence	IN
II-8	Telephone No.	91 22 28230102
II-9	Facsimile No.	91 22 28212010
II-10	e-mail	ratneshrivast@hotmail.com

Best Available Copy

III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	JADAV , Kanaksinh, Jesingbhai
III-1-5	Address:	SUN PHARMA ADVANCED RESEARCH CENTRE AKOTA ROAD, AKOTA 390020 BARODA, INDIA India
III-1-6	State of nationality	IN
III-1-7	State of residence	IN
III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	KAMBHAMPATI, Sudhakar
III-2-5	Address:	SUN PHARMA ADVANCED RESEARCH CENTRE AKOTA ROAD, AKOTA 390020 BARODA, INDIA India
III-2-6	State of nationality	IN
III-2-7	State of residence	IN
III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	CHITTURI , Trinadha, Rao
III-3-5	Address:	SUN PHARMA ADVANCED RESEARCH CENTRE AKOTA ROAD, AKOTA 390020 BARODA, INDIA India
III-3-6	State of nationality	IN
III-3-7	State of residence	IN
III-4	Applicant and/or inventor	
III-4-1	This person is:	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	THENNATI , Rajamannar
III-4-5	Address:	SUN PHARMA ADVANCED RESEARCH CENTRE AKOTA ROAD, AKOTA 390020 BARODA, INDIA India
III-4-6	State of nationality	IN
III-4-7	State of residence	IN

IV-1	Agent or common representative; or address for correspondence No agent or common representative is/has been appointed; the following special address should be used as: Name (LAST, First)	address for correspondence
IV-1-1	Name (LAST, First)	SHRIVASTAVA, Ratnesh
IV-1-2	Address:	SUN PHARMACEUTICAL INDUSTRIES LIMITED, ACME PLAZA ANDHERI KURLA ROAD, ANDHERI (EAST) 400 059 MUMBAI, INDIA India
IV-1-3	Telephone No.	91 22 28230102
IV-1-4	Facsimile No.	91 22 28212010
IV-1-5	e-mail	ratneshrivast@hotmail.com
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	20 June 2002 (20.06.2002)
VI-1-2	Number	544/MUM/2002
VI-1-3	Country	IN
VI-2	Priority claim of earlier national application	
VI-2-1	Filing date	17 April 2003 (17.04.2003)
VI-2-2	Number	387/MUM/2003
VI-2-3	Country	IN
VI-3	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1, VI-2
VII-1	International Searching Authority Chosen	Austrian Patent Office (ISA/AT)
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	1
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	5
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	8
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	1
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-

VIII-1-1	Declaration: Identity of the Inventor Declaration as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i))	in relation to this international application
	Name: Address:	JADAV , Kanaksinh, Jesingbhai of AKOTA ROAD, AKOTA 390020 BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application
	Name: Address:	KAMBHAMPATI, Sudhakar of AKOTA ROAD, AKOTA 390020 BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application
	Name: Address:	CHITTURI , Trinadha, Rao of AKOTA ROAD, AKOTA 390020 BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application
	Name: Address:	THENNATI , Rajamannar of AKOTA ROAD, AKOTA 390020 BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application
	This declaration is made for the purposes of:	all designations

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name:	in relation to this international application SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, JADAV , Kanaksinh, Jesingbhai
VIII-2-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, KAMBHAMPATI, Sudhakar
VIII-2-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, CHITTURI , Trinadha, Rao
VIII-2-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, THENNATI , Rajamannar
VIII-2-1 (ix)	This declaration is made for the purposes of:	all designations except the designation of the United States of America

VIII-2-2	<p>Declaration: Entitlement to apply for and be granted a patent</p> <p>Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:</p> <p>Name:</p>	<p>in relation to this international application</p> <p>JADAV , Kanaksinh, Jesingbhai is entitled to apply for and be granted a patent by virtue of the following:</p>
VIII-2-2 (i)		<p>JADAV , Kanaksinh, Jesingbhai of AKOTA ROAD, AKOTA BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application</p>
VIII-2-2 (ix)	<p>This declaration is made for the purposes of:</p>	<p>all designations</p>

VIII-2-3	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name:	in relation to this international application KAMBHAMPATI, Sudhakar is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-3 (i)		KAMBHAMPATI, Sudhakar of AKOTA ROAD, AKOTA BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application
VIII-2-3 (ix)	This declaration is made for the purposes of:	all designations

VIII-2-4	<p>Declaration: Entitlement to apply for and be granted a patent</p> <p>Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:</p> <p>Name:</p>	<p>in relation to this international application</p> <p>CHITTURI , Trinadha, Rao</p> <p>is entitled to apply for and be granted a patent by virtue of the following:</p>
VIII-2-4 (i)		<p>CHITTURI , Trinadha, Rao of AKOTA ROAD, AKOTA BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application</p>
VIII-2-4 (ix)	<p>This declaration is made for the purposes of:</p>	<p>all designations</p>

VIII-2-5	<p>Declaration: Entitlement to apply for and be granted a patent</p> <p>Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:</p> <p>Name:</p>	<p>in relation to this international application</p> <p>THENNATI , Rajamannar</p> <p>is entitled to apply for and be granted a patent by virtue of the following:</p>
VIII-2-5 (i)		<p>THENNATI , Rajamannar of AKOTA ROAD, AKOTA BARODA, INDIA India is the inventor of the subject matter for which protection is sought by way of this international application</p>
VIII-2-5 (ix)	<p>This declaration is made for the purposes of:</p>	<p>all designations</p>

VIII-3-1	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:	in relation to this international application SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled to claim priority of earlier application No. 544/MUM/2002 by virtue of the following:
VIII-3-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, KAMBHAMPATI, Sudhakar
VIII-3-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, CHITTURI , Trinadha, Rao
VIII-3-1 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, THENNATI , Rajamannar
VIII-3-1 (ix)	This declaration is made for the purposes of:	all designations

VIII-3-2	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:	in relation to this international application KAMBHAMPATI, Sudhakar is entitled to claim priority of earlier application No. 544/MUM/2002 by virtue of the following:
VIII-3-2 (i)		the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application
VIII-3-2 (ix)	This declaration is made for the purposes of:	all designations

VIII-3-3	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:	in relation to this international application CHITTURI , Trinadha, Rao is entitled to claim priority of earlier application No. 544/MUM/2002 by virtue of the following:
VIII-3-3 (i)		the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application
VIII-3-3 (ix)	This declaration is made for the purposes of:	all designations

VIII-3-4	<p>Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:</p>	<p>in relation to this international application</p> <p>THENNATI , Rajamannar is entitled to claim priority of earlier application No. 544/MUM/2002 by virtue of the following:</p>
VIII-3-4 (i)		<p>the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application</p>
VIII-3-4 (ix)	<p>This declaration is made for the purposes of:</p>	<p>all designations</p>

VIII-3-5	<p>Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:</p>	<p>in relation to this international application</p> <p>SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled to claim priority of earlier application No. 387/MUM/2003 by virtue of the following:</p>
VIII-3-5 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, JADAV , Kanaksinh, Jesingbhai
VIII-3-5 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, CHITTURI , Trinadha, Rao.
VIII-3-5 (ii)		SUN PHARMACEUTICAL INDUSTRIES LIMITED is entitled as employer of the inventor, THENNATI , Rajamannar
VIII-3-5 (ix)	<p>This declaration is made for the purposes of:</p>	all designations

VIII-3-6	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)); Name:	in relation to this international application JADAV , Kanaksinh, Jesingbhai is entitled to claim priority of earlier application No. 387/MUM/2003 by virtue of the following:
VIII-3-6 (i)		the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application
VIII-3-6 (ix)	This declaration is made for the purposes of:	all designations

VIII-3-7	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:	<p>in relation to this international application</p> <p>CHITTURI , Trinadha, Rao is entitled to claim priority of earlier application No. 387/MUM/2003 by virtue of the following:</p>
VIII-3-7 (i)		the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application
VIII-3-7 (ix)	This declaration is made for the purposes of:	all designations

VIII-3-8	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)): Name:	in relation to this international application THENNATI , Rajamannar is entitled to claim priority of earlier application No. 387/MUM/2003 by virtue of the following:
VIII-3-8 (i)		the applicant is the inventor of the subject matter for which protection was sought by way of the earlier application
VIII-3-8 (ix)	This declaration is made for the purposes of:	all designations

VIII-4-1	<p>Declaration: Inventorship (only for the purposes of the designation of the United States of America)</p> <p>Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1 -1	Prior applications:	<p>544/MUM/2002, IN, 20 June 2002 (20.06.2002)</p> <p>387/MUM/2003, IN, 17 April 2003 (17.04.2003)</p>

		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1 -1-1	Name:	JADAV , Kanaksinh, Jesingbhai
VIII-4-1 -1-2	Residence: (city and either US State, if applicable, or country)	BARODA, INDIA, India
VIII-4-1 -1-3	Mailing address:	AKOTA ROAD, AKOTA
VIII-4-1 -1-4	Citizenship:	IN
VIII-4-1 -1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1 -1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	

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VIII-4-1 -2-1 VIII-4-1 -2-2 VIII-4-1 -2-3	Name: : Residence: (city and either US State, if applicable, or country) Mailing address:	KAMBHAMPATI, Sudhakar BARODA, INDIA, India SUN PHARMA ADVANCED RESEARCH CENTRE AKOTA ROAD, AKOTA 390020 BARODA, INDIA India IN
VIII-4-1 -2-4 VIII-4-1 -2-5 VIII-4-1 -2-6	Citizenship: Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1 -3-1 VIII-4-1 -3-2 VIII-4-1 -3-3 VIII-4-1 -3-4 VIII-4-1 -3-5 VIII-4-1 -3-6	Name: Residence: (city and either US State, if applicable, or country) Mailing address: Citizenship: Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	CHITTURI , Trinadha, Rao BARODA, INDIA, India AKOTA ROAD, AKOTA IN
VIII-4-1 -4-1 VIII-4-1 -4-2 VIII-4-1 -4-3 VIII-4-1 -4-4 VIII-4-1 -4-5 VIII-4-1 -4-6	Name: Residence: (city and either US State, if applicable, or country) Mailing address: Citizenship: Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	THENNATI , Rajamannar BARODA, INDIA, India AKOTA ROAD, AKOTA IN

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IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	24	-
IX-2	Description	23	-
IX-3	Claims	4	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	0	-
IX-7	TOTAL	52	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name	SUN PHARMACEUTICAL INDUSTRIES LIMITED SHANGHVI Dilip MANAGING DIRECTOR, SUN PHARMACEUTICAL INDUSTRIES LIMITED	
X-1-2	Name of signatory		
X-1-3	Capacity		
X-2	Signature of applicant, agent or common representative		
X-2-1	Name (LAST, First)	JADAV , Kanaksinh, Jesingbhai	
X-3	Signature of applicant, agent or common representative		
X-3-1	Name (LAST, First)	KAMBHAMPATI, Sudhakar	
X-4	Signature of applicant, agent or common representative		
X-4-1	Name (LAST, First)	CHITTURI , Trinadha, Rao	
X-5	Signature of applicant, agent or common representative		
X-5-1	Name (LAST, First)	THENNATI , Rajamannar	

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	

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10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AT
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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PCT (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only			
0-1	International Application No.			
0-2	Date stamp of the receiving Office			
0-4	Form - PCT/RO/101 (Annex)			
0-4-1	PCT Fee Calculation Sheet Prepared using		PCT-EASY Version 2.92 (updated 01.04.2003)	
0-9	Applicant's or agent's file reference		Flut_101	
2	Applicant		SUN PHARMACEUTICAL INDUSTRIES LIMITED, et al.	
12	Calculation of prescribed fees		fee amount/multiplier	Total amounts (USD) Total amounts (INR)
12-1	Transmittal fee	T	⇒	
12-2-1	Search fee	S	⇒	5,000
12-2-2	International search to be carried out by	AT		150
12-3	International fee			
	Basic fee			
	(first 30 sheets)	b1	476 USD	
12-4	Remaining sheets		22	
12-5	Additional amount	(X)	12 USD	
12-6	Total additional amount	b2	264 USD	
12-7	b1 + b2 =	B	740 USD	
12-8	Designation fees			
	Number of designations contained in international application		95	
12-9	Number of designation fees payable (maximum 5)		5	
12-10	Amount of designation fee	(X)	104 USD	
12-11	Total designation fees	D	520 USD	
12-12	PCT-EASY fee reduction	R	-148 USD	
12-13	Total International fee (B+D-R)	I	⇒	1,112
12-14	Fee for priority document			
	Number of priority documents requested		2	
12-15	Fee per document	(X)	3,000 INR	
12-16	Total priority document fee	P	⇒	6,000
12-17	TOTAL FEES PAYABLE (T+S+I+P)		⇒	1,262 11,000
12-19	Mode of payment		bank draft	

VALIDATION LOG AND REMARKS

13-2-1	Validation messages Request	Green? The title of the invention shall be short and precise. Please verify.
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PCT (ANNEX - FEE CALCULATION SHEET)

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ABSTRACT

The present invention provides a convenient process for the preparation of S-fluoro-methyl 6a,9a-difluoro-11b-hydroxy-16a-methyl-17a-propionyloxy-3-oxoandrosta-1,4-diene-17b-carbothioate, a compound of formula 1, comprising

- (a) treating 17b-[(N,N-dimethylcarbamoyl)thio]carbonyl-6a,9a-difluoro-11b-hydroxy-16a-methyl-17a-propionyloxy-3-oxoandrosta-1,4-diene, a compound of formula 3 with alkali metal carbonate-alkanol system to obtain 6a,9a-difluoro-11b-hydroxy-16a-methyl-17a-propionyloxy-3-oxoandrosta-1,4-diene-17b-carbothioic acid, a compound of formula 4;
- (b) reacting the compound of formula 4 with bromofluoromethane to yield the compound of formula 1.

The present invention also provides an improved process for preparation of compound of formula 1 comprising

- (a) reacting 6a,9a-difluoro-11b-hydroxy-16a-methyl-3-oxo-17a-(propionyloxy) androsta-1,4-dien-17b-carboxylic acid, a compound of formula 2, with N,N-dimethylthiocarbamoyl chloride in an inert aprotic solvent in the presence of an iodide catalyst and a base to give a compound of formula 3;
- (b) reacting the compound of formula 3 with a hydrosulfide reagent and bromofluoromethane to obtain a compound of formula 1.

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